MITSUBISHI

THE BIG SCREEN COMPANY™

Digital

Owner's Guide

Projection Television Models
WS-55857, WS-55907, WS-65857, WS-65907, and WS-73907

Technically Anything is Possible®

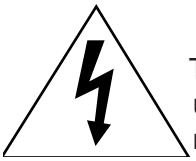
visit our website at

www.mitsubishi-tv.com

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user of the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Warning: To avoid permanently imprinting a fixed image onto your TV screen, please do not display the same stationary images on the screen for more that 15% of your total TV viewing in one week. Examples of stationary images are letterbox top/bottom bars from DVD disk or other video sources, side bars when showing standard TV pictures on widescreen TV’s, stock market reports, video game patterns, station logos, web sites or stationary computer images. Such patterns can unevenly age the picture tubes causing permanent damage to the TV. Please see pages 23 and 68 for a detailed explanation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: To assure continued FCC compliance, the user must use a shielded video interface cable with bonded ferrite cores, when using the VGA input.

Changes or modifications not expressly approved by Mitsubishi could void the user’s authority to operate this equipment.

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:
TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

NOTE TO CATV SYSTEM INSTALLER:
THIS REMINDER IS PROVIDED TO CALL THE CATV SYSTEM INSTALLER’S ATTENTION TO ARTICLE 820-40 OF THE NEC THAT PROVIDES GUIDELINES FOR THE PROPER GROUNDING AND, IN PARTICULAR, SPECIFIES THAT THE CABLE GROUND SHALL BE CONNECTED TO THE GROUNDING SYSTEM OF THE BUILDING, AS CLOSE TO THE POINT OF CABLE ENTRY AS PRACTICAL.

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IMPORTANT SAFEGUARDS

Please read the following safeguards for your TV and retain for future reference.

Always follow all warnings and instructions marked on the television.

1. Read, Retain and Follow All Instructions

Read all safety and operating instructions before operating the TV. Retain the safety and operating instructions for future reference. Follow all operating and use instructions.

2. Heed Warnings

Adhere to all warnings on the appliance and in the operating instructions.

3. Cleaning

Unplug the TV from the wall outlet before cleaning. Do not use liquid, abrasive, or aerosol cleaners. Cleaners can permanently damage the cabinet and screen. Use a lightly dampened cloth for cleaning.

4. Attachments and Equipment

Never add any attachments and/or equipment without approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.

5. Water and Moisture

Do not use the TV where contact with or immersion in water is possible. Do not use near bath tubs, wash bowls, kitchen sinks, laundry tubs, swimming pools, etc.

6. Accessories

Do not place the TV on an unstable cart, stand, tripod, or table. The TV may fall, causing serious injury to a child or adult and serious damage to the TV. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the TV. Any mounting of the TV should follow the manufacturer's instructions, and should use mounting accessories recommended by the manufacturer.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

7. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the TV and to protect it from overheating. Do not block these openings or allow them to be obstructed by placing the TV on a bed, sofa, rug, or other similar surface. Nor should it be placed over a radiator or heat register. If the TV is to be placed in a rack or bookcase, ensure that there is adequate ventilation and that the manufacturer's instructions have been adhered to.

8. Power Source

This TV should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your appliance dealer or local power company.

9. Grounding or Polarization

This TV is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

10. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the TV.

11. Lightning

For added protection for this TV during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the TV due to lightning and power-line surges.

IMPORTANT SAFEGUARDS Continued

12. Power Lines
An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

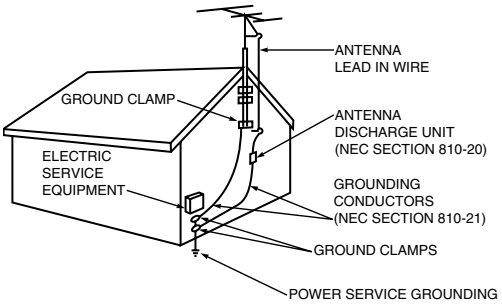
13. Overloading
Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

14. Object and Liquid Entry
Never push objects of any kind into this TV through openings as they may touch dangerous voltage points or short-out parts that could result in fire or electric shock. Never spill liquid of any kind on or into the TV.

15. Outdoor Antenna Grounding
If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING



NEC — NATIONAL ELECTRICAL CODE

16. Servicing
Do not attempt to service this TV yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

17. Damage Requiring Service
Unplug the TV from the wall outlet and refer servicing to qualified service personnel under the following conditions:

(a) When the power-supply cord or plug is damaged.
(b) If liquid has been spilled, or objects have fallen into the TV.
(c) If the TV has been exposed to rain or water.
(d) If the TV does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV to its normal operation.
(e) If the TV has been dropped or the cabinet has been damaged.
(f) When the TV exhibits a distinct change in performance - this indicates a need for service.

18. Replacement Parts
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

19. Safety Check
Upon completion of any service or repair to the TV, ask the service technician to perform safety checks to determine that the TV is in safe operating condition.

20. Heat
The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

If you have questions regarding your television, call
Consumer Relations
at (800) 332-2119, or email us at
MDEAservice@bigscreen.mea.com

To order replacement or additional remote controls or owner's guides
call (800) 553-7278

or

visit our website at www.mitsubishi-tv.com

Part I

Thank You

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We at Mitsubishi Would Like to Thank You

To the Mitsubishi Consumer:

Thank you for choosing Mitsubishi as your premier home entertainment partner. Whether this is your first Mitsubishi consumer electronics product or an addition to your growing Mitsubishi family, you should be proud and delighted for choosing one of the most technologically advanced bigscreens available today.

Unlike typical television manufacturers, we have based our primary design and engineering capabilities in North America at our California headquarters. As a result, the engineers who design our television products live in the same communities as our customers. They know how our customers think and what their goals and desires are. They know that today's consumer has never been more sophisticated and that the way to reach that consumer is to deliver technically advanced products at prices that our competition simply can't match.

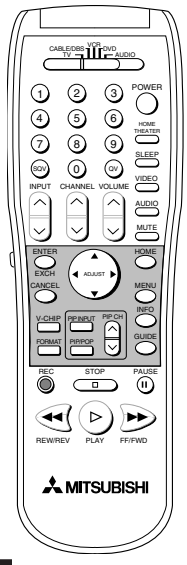
When you look at your new Mitsubishi bigscreen television, please see all of us who built it, because when we build it, we see you.

Thank You Again,
The Mitsubishi Team

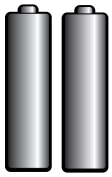
Unpacking Your New TV

Please take a moment to review the following list of items to ensure that you have received everything included:

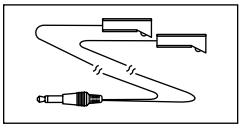
1. Remote Control
2. (2) AAA Batteries
3. (3) IR Emitter Cables
4. Product Registration Card
- Owner's Guide
- Quick Reference Card



1 ***Remote Control***



2 ***(2) AAA Batteries***



3 ***(3) IR Emitter Cables***

4 ***Product Registration Card***

Special Features

Your new HD-Upgradeable bigscreen television has many special features that make it the perfect addition to your home entertainment system. Below we have highlighted a handful.

HD-Upgradeable

With the use of an optional HDTV receiver like the Mitsubishi SR-HD500 or similar model, your Mitsubishi bigscreen can display high definition pictures.
See pages 20 & 21.

Wide Screen Picture Format

You will be able to view pictures as the directors intended you to see them. Both DTV and DVD's supporting the widescreen format will enable you to enjoy a theater feel in the comfort of your home.
See pages 56-57.

PIP/POP Viewing Option

Using Picture-in-Picture and Picture-outside-Picture will give you exciting options for viewing your favorite programs.
See pages 54-55.

V-Chip Technology

Mitsubishi understands that you may want to shield certain viewers from specific program content. Your Mitsubishi bigscreen will allow you to restrict Programming by general contents, specific contents, or even by time.
See pages 36-38.

Multibrand Remote Control

Your Mitsubishi remote control can be programmed to control many other audio/video components.
See page 26 & 27.

Unlike typical television manufacturers, we have based our primary design and engineering capabilities in North America at our California headquarters. As a result, the engineers who design our television products live in the same communities as our customers. They know how our customers think and what their goals and desires are. They know that today's consumer has never been more sophisticated and that the way to reach that consumer is to deliver technically advanced products at prices that our competition simply can't match.

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Front Control Panel

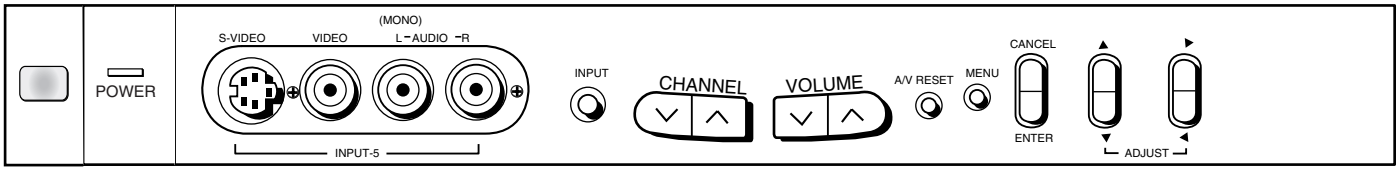


Figure 1. *Front Control Panel.*

IRIS™

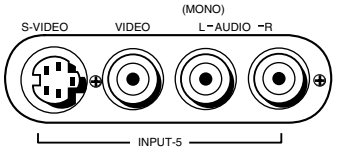
Intelligent Room Illumination (light) Sensor. Turn this feature on or off using the VIDEO button on your remote control. When the IRIS is on, your TV will automatically adjust picture contrast and brightness for the best picture based on your room lighting. When on, do not block the sensor to ensure an optimum picture.

POWER Power (used for Timer function)

During normal operation, the power light will glow steady green when the TV is on, and not glow when the TV is off. When the TV is set to turn on at a specific time, the green power light will blink while the TV is off. Please see *Timer*, page 39, for timer setup instructions.

A/V RESET A/V Reset

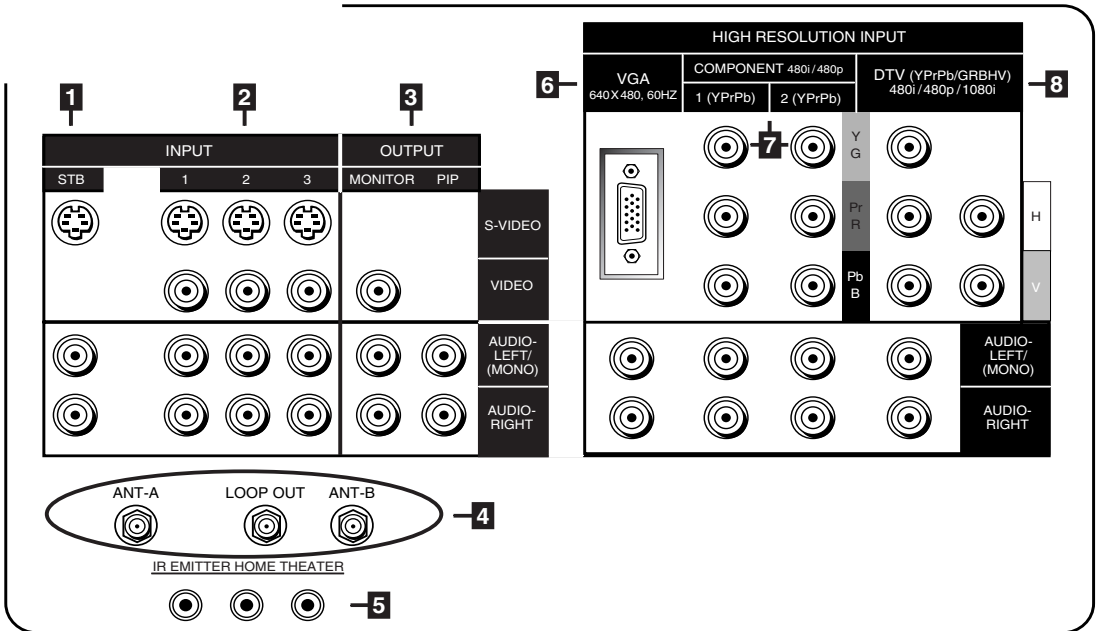
Press this button to reset the A/V memory on all nine inputs to the factory default settings. Please see *A/V Memory Reset*, page 42, for instructions.



Input 4

This input can be used for convenient connection of a camcorder or other video device to the TV. Please note that if you connect to the S-VIDEO terminal, the VIDEO terminal is deactivated. The VIDEO terminal is active when there is no S-Video connection.

Back Panel



1 STB (Set-Top-Box)

This input can be used for the connection of any device with an S-Video output.

2 Inputs 1-3

These inputs can be used for the connection of a VCR, Super VHS (S-VHS) VCR, laser disc player, or other A/V device to the TV. Please note that if you connect to the S-VIDEO terminal, the VIDEO terminal is deactivated. The VIDEO terminal is active when there is no S-Video connection.

3 Output (Monitor and PIP)

The Monitor Output sends the TV audio and video signals, excluding component video, VGA, or DTV video, to an A/V receiver or other equipment. The PIP output sends the PIP's or POP's audio signal to an amplifier or wireless headphones. If no PIP or POP is displayed, the PIP output will send the main picture audio signal.

4 Antenna (ANT-A, LOOP OUT, and ANT-B)

ANT-A and ANT-B receive signals from VHF/UHF antennas or a cable system. LOOP OUT sends the ANT-A signal out to another component, such as a cable box or VCR.

5 IR Emitter Home Theater (System 4 Home Theater IR Control)

Connecting IR emitters here allow the TV to automatically change a digital A/V receiver's input in a home theater setup, and pass IR commands to other A/V devices.

6 VGA

This input can be used for the connection of a computer. Please see *Appendix B*, page 61, for signal compatibility.

7 Component Inputs 1-2

These inputs can be used for the connection of A/V equipment with component video outputs, such as a DVD player. Please see *Appendix B*, page 61, for signal compatibility.

8 DTV Input

This input is used to connect a DTV receiver, and can be configured for HDTV component, RGB sync on green, and RGB plus H&V. Please see *Appendix B*, page 61, for signal compatibility.

How Connections Affect the PIP and POP

To see a picture in the PIP or POP inset, you may need to select an input source. If the only input connected is ANT-A, then both the main picture and the PIP/POP insert will be from that input source. If other video equipment is connected, you may be able to view these input sources as the PIP/POP insert. When connecting your new Mitsubishi bigscreen, it is important to understand which main picture and PIP/POP input sources can and cannot be used together. Table 1 shows which inputs can and cannot be used together and the limitations they may require. To see if 480i, DTV 480p, 1080i, Conponent-1 or Component-2 480p is being displayed as the main picture, press INFO on the TV remote control. The on-screen display, figure 1, will list 480i, 480p or 1080i when those signals are being received. See *Operation of PIP and POP*, pages 54-55, for operating instructions. An asterisk (*) displayed after the signal type indicates that the signal being received is a non-standard format. A non-standard format signal may or may not display properly in a PIP/POP inset.

PIP/POP / MAIN	ANT-A	ANT-B	INPUTS 1-4	COMPONENT INPUTS 1-2	DTV	STB
ANT-A	OK*	NO PIP/POP	OK	OK	OK	OK
ANT-B	OK	OK*	OK	OK	OK	OK
INPUTS 1-4	OK	OK	OK**	OK	OK	OK
COMPONENT INPUTS 1-2	OK	OK	OK	OK**	OK POP NO PIP	OK
DTV	OK	OK	OK	OK	OK**	OK
STB	OK	OK	OK	OK	OK	OK**
VGA	NO PIP					

Table 1. **No Side-by-Side with the same channel.*
***No Side-by-Side with the same input.*
PIP cannot display VGA.

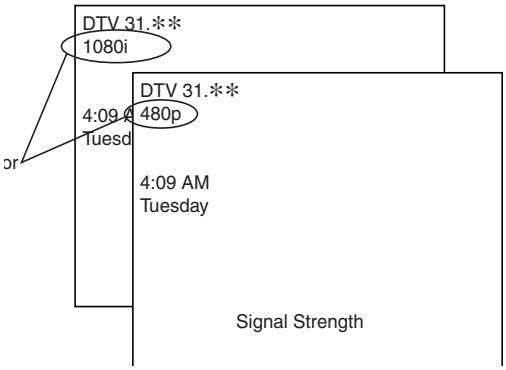


Figure 1. *On-screen display will show 480i, 480p, or 1080i when those signals are being received.*

How Connections Affect the System 4 Home Theater IR Control

The Mitsubishi System 4 Home Theater IR Control is a special feature that makes it easier to use your TV with a digital surround sound A/V receiver. Once your equipment is properly connected and set up, your TV and digital A/V receiver will change inputs together, to match high resolution pictures with the proper surround sound.

When you change inputs on your TV to watch different video products, your TV will send signals via your remote control and the infrared emitters to your digital A/V receiver to change inputs. You will automatically hear the high quality digital surround sound from digital products like your DTV receiver and DVD player, and high quality analog stereo or surround sound from non-digital products like your VCR.

Additionally, all IR remote signals from your Mitsubishi remote or other manufacturers remote will be passed through your TV to your A/V devices. Your A/V devices can be hidden or behind cabinet doors and controlled by pointing the remote at the TV.

Special Setups: A/V Equipment (For System 4 Home Theater IR Control)

VCR: Connect the cables to the TV as directed on page 17, with one exception. Connect the audio output connection to the appropriate input on the back of the A/V receiver (as shown in table 1).

DVD: Connect the cables as directed on page 19 (using the COMPONENT-1 input), with one exception. Connect the digital audio output connection on the DVD player to the appropriate digital input on the back of the digital A/V receiver (as shown in table 1).

DTV: Connect the cables as directed on pages 20-21, with one exception. Connect the digital audio output connection on the DTV receiver to the appropriate digital input on the back of the digital A/V receiver (as shown in table 1).

A/V Receiver: Connect as directed on page 18, with two additions. Use a S-Video cable in step 1 if you have a S-Video VCR. The TV outputs should be connected to the A/V receivers input marked TV.

- **Auto Standby:** ON (See your A/V receiver's Owner's Guide for this procedure). For all TV use, the sound will come from the A/V receiver. Not available with all A/V receivers.
- **Digital Input Assignment for DVD:** Assign the digital input you used for your DVD player to the A/V receiver's DVD input selector. This procedure is explained in your A/V receiver's Owner's Guide.
- **Digital Assignment for DTV:** Assign the digital input you used for DTV to the A/V receiver's DTV input selector.

Infrared Emitter: Connect as shown on page 22.

Special Setups: TV

Menu selection for A/V connections, page 32.

- **TV Speakers:** OFF
- **Audio Output:** Fixed
- **TV Inputs Appropriatly Named:** See *Assign Input Menu*, page 33.

Remote Control, pages 26-27.

- Set the slide switch to the TV position and follow the programming instructions using the A/V receiver code appropriate for your A/V receiver, page 27 (figure 5).

Brand	Model	The products listed at the top of this column connect to the below listed inputs on the back of the appropriate A/V receiver.			
		TV / Cable	SAT/DBS/DTV	VCR	DVD
Mitsubishi	M-VR1000 / M-VR800	TV	VCR2	VCR1	DVD
Mitsubsihi	M-VR900 / M-VR700	TV	CABLE/DBS	VCR	DVD
Denon	RX-888V	TV/DBS	VCR2	VCR1	DVD/LD
JVC	VR-2080	TV	VIDEO 2	VCR 1	DVD
Kenwood	TX-DS575	AV AUX	LD	VIDEO 1	DVD
Onkyo	VSX-21	VIDEO 3	VIDEO 2	VIDEO 1	DVD
Pioneer	STR-DE825	TV/SAT	VIDEO 2	VCR 1	DVD/LD
Sony	RX-V2095	TV/DBS	VIDEO 2	VIDEO 1	DVD/LD
Yamaha		TV/DBS	VCR 2	VCR1	DVD/LD

Table 1. *A/V receiver back panel input table*

Connecting an Antenna, Wall Outlet Cable, or Cable Box

Separate UHF and VHF Antennas

(Figure 1)

1. Connect the UHF and VHF antenna leads to the UHF/VHF combiner.
2. Push the combiner onto ANT-A on the TV back panel.

➡ UHF/VHF combiners are not provided with the TV. They should be available at most electronic stores.

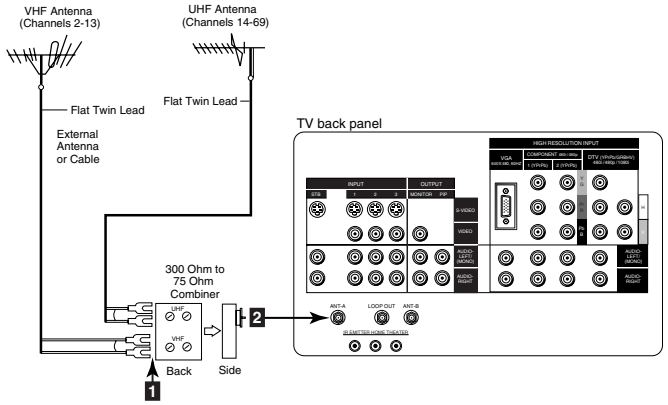


Figure 1. *Connecting separate UHF and VHF antennas.*

Twin Lead Antenna, Coaxial Lead Antenna, or Wall Outlet Cable

For antenna with twin flat leads (Figure 2)

1. Connect the 300ohm twin leads to the transformer.
2. Push the 75ohm side of the transformer onto ANT-A on the TV back panel.

➡ 300ohm to 75ohm matching transformers are not provided with the TV. They should be available at most electronic stores.

For cable or antenna with coaxial lead (Figure 2)

3. Connect the incoming cable to ANT-A on the TV back panel.

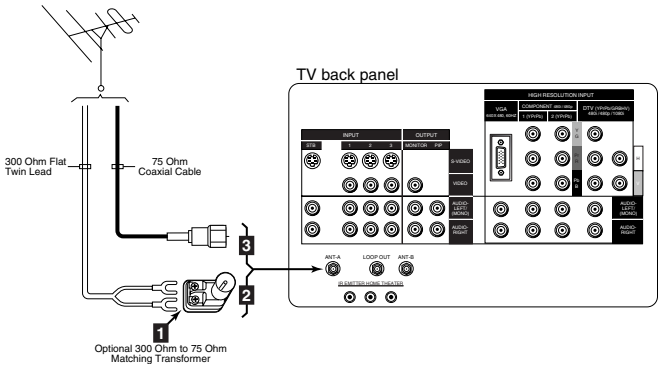


Figure 2. *Connecting twin lead antenna, coaxial lead antenna, or wall outlet cable.*

IMPORTANT

➡ **Additional connection cables are not provided with the TV. They should be available at most electronic stores.**

Cable Box

(Figure 3)

1. Connect the incoming cable to ANT-A on the TV back panel.

➡ Connect two coaxial cables as follows:

2. One from LOOP-OUT on the TV back panel to IN on the cable box back panel.
3. One from OUT on the cable box back panel to ANT-B on the TV back panel.

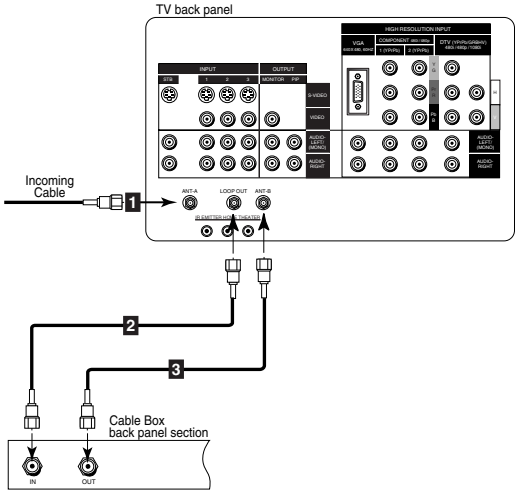


Figure 3. *Connecting the cable box.*

Connecting a VCR

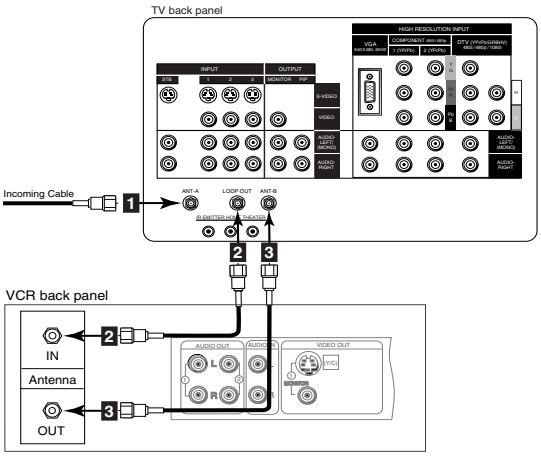


Figure 1. *Connecting VCR with antennas or wall outlet cable.*

IMPORTANT

➡ **Additional connection cables are not provided with the TV. They should be available at most electronic stores.**

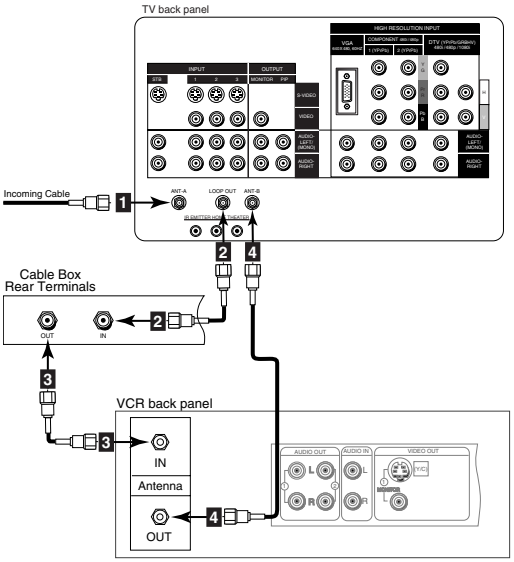


Figure 2. *Connecting VCR with cable box.*

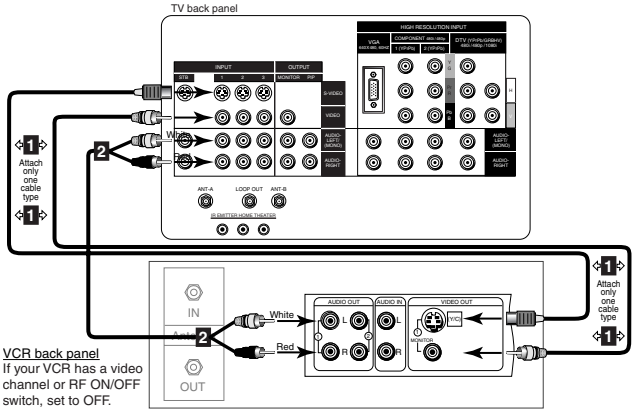


Figure 3. *Connecting the VCR Audio/Video.*

Antennas or Wall Outlet Cable

(Figure 1)

1 Connect the incoming cable to ANT-A on the TV back panel.

➡ Connect two coaxial cables as follows:

2 One from LOOP-OUT on the TV back panel to ANTENNA IN on the VCR back panel.

3 One from VCR back panel ANTENNA OUT to ANT-B on the TV back panel.

4 Now complete figure 3, steps 1-2.

Cable Box

(Figure 2)

1 Connect the incoming cable to ANT-A on the TV back panel.

➡ Connect three coaxial cables as follows:

2 One from LOOP-OUT on the TV back panel to IN on the back of the cable box.

3 One from OUT on the back of the cable box to ANTENNA IN on the VCR back panel.

4 One from ANTENNA OUT on the VCR back panel to ANT-B on the TV back panel.

5 Now complete figure 3, steps 1-2.

Composite Video with Audio or S-Video with Audio

(Figure 3)

1 Connect a video cable from VIDEO OUT on the VCR back panel to VIDEO INPUT-1, INPUT-2 or INPUT-3 on the TV back panel.

➡ If you have a S-VHS VCR, follow the same steps using the S-Video terminals on the VCR and TV (in place of the composite terminals).

2 Connect a set of audio cables from AUDIO OUT on the VCR back panel to AUDIO INPUT-1, INPUT-2, or INPUT-3 on the TV back panel. The red cable connects to the R (right) channel and the white cable connects to the L (left) channel. If your VCR is mono (non-stereo), connect only the white (left) cable.

Connecting an Audio Receiver

Stereo Audio System

(Figure 1)

1. Connect the audio cables from AUDIO MONITOR OUTPUT on the TV back panel to TV IN or AUX IN terminals on the back of the audio system. The red cable connects to the R (right) channel, and the white cable connects to the L (left) channel.
2. Turn off the TV's speakers through the *Audio/Video Menu*, page 43.
3. Set the audio system's input to the TV or AUX position to hear the TV's audio through your stereo system.

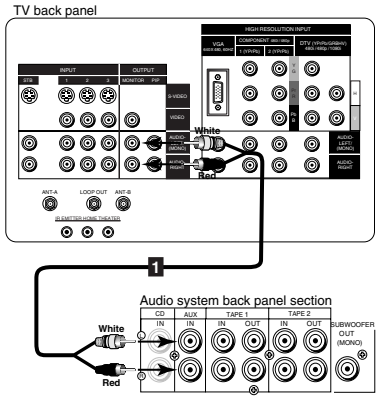


Figure 1. *Connecting the Stereo Audio System*

IMPORTANT

➡ **Additional connection cables are not provided with the TV. They should be available at most electronic stores.**

A/V Receiver

(Figure 2)

1. Connect a video cable or S-Video cable from VIDEO MONITOR OUT on the back of the A/V receiver to VIDEO INPUT-1 on the TV back panel.
2. Connect a video cable from VIDEO MONITOR OUTPUT on the TV back panel to VIDEO TV IN on the back of the A/V receiver.
3. Connect a set of audio cables from AUDIO MONITOR OUTPUT on the TV back panel to AUDIO TV IN on the back of the A/V receiver. The red cable connects to the R (right) channel, and the white cable connects to the L (left) channel.

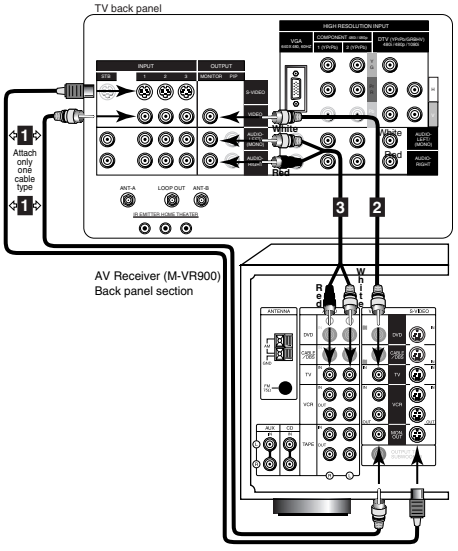


Figure 2. *Connecting the A/V Receiver.*

IMPORTANT

➡ **Please see your A/V receiver Owner's Guide for more detailed connections.**

WARNING: **Do not display the same stationary images on the screen for more that 15% of your total TV viewing in one week. Examples of stationary images are letterbox top/bottom bars from DVD or other video sources, side bars when showing standard TV pictures on widescreen TV's, stock market reports, video game patterns, station logos, web sites, or stationary computer images. Such patterns can unevenly age the picture tubes causing permanent damage to the TV. Please see pages 23 and 58 for a detailed explanation.**

Connecting a DVD Player

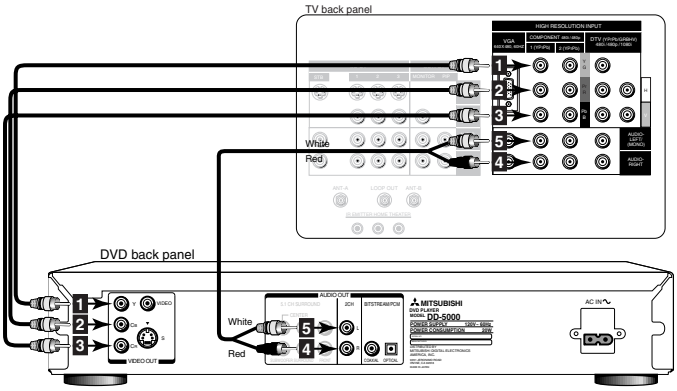


Figure 1. *Connecting the DVD player.*

IMPORTANT

- **See Appendix B, page 61, for component video signal compatibility information.**
- **For digital audio connections, see your DVD and A/V receiver Owner's Guides.**

DVD Player with Component Video

(Figure 1)

- Connect the Component Video cables from Y/Cr/Cb or Y/Pr/Pb VIDEO OUT on the back of the DVD player to COMPONENT-1 or COMPONENT-2 on the TV back panel, matching the correct components:
  - **1** Y to Y
  - **2** Cr or Pr to Pr
  - **3** Cb or Pb to Pb
- Connect a set of audio cables from AUDIO OUT on the back of the DVD player to COMPONENT AUDIO Input 1 or 2 on the TV back panel. The red cable **4** connects to the R (right) channel, and the white cable **5** connects to the L (left) channel.

Connecting an S-Video Device

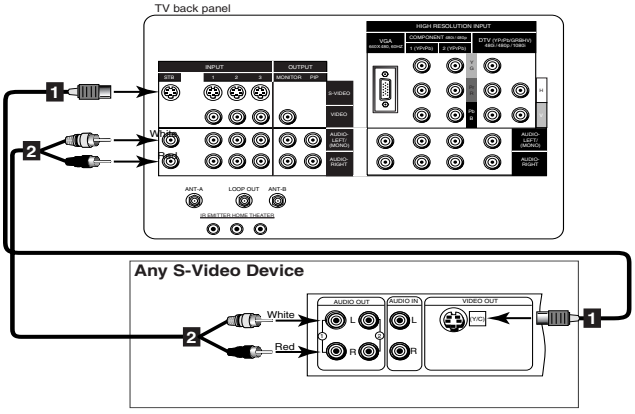


Figure 2. *Connecting an S-Video Device.*

S-Video Device

(Figure 2)

1. Connect an S-Video cable from VIDEO OUT on the device back panel to VIDEO INPUT-1, INPUT-2, INPUT-3, or STB on the TV back panel.

2. Connect a set of audio cables from AUDIO OUT on the device back panel to AUDIO INPUT-1 or INPUT-2 on the TV back panel. The red cable connects to the R (right) channel and the white cable connects to the L (left) channel. If your device is mono (non-stereo), connect only the white (left) cable.

Connecting a DTV Receiver

DTV Connectors and Adaptors

(Figure 1)

The TV back panel has 5 RCA-type connectors, for the DTV connection. The back panel of your DTV receiver may use RCA-type connectors or BNC-type connectors. If your DTV receiver comes with BNC type connections, you will need to purchase BNC to RCA adaptors to connect the TV to the DTV receiver. These adaptors should be available at most electronic supply stores.

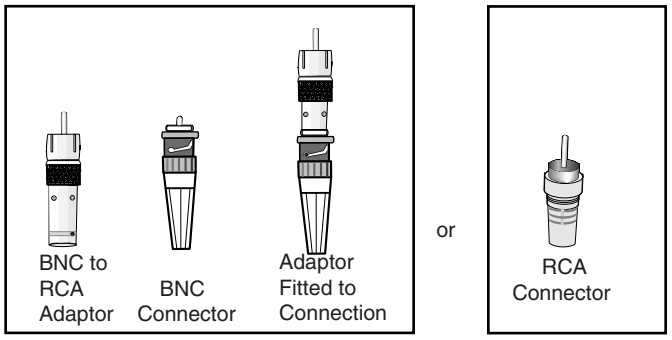


Figure 1. *DTV connectors and adaptors.*

DTV Receiver with Component Video Connections

(Figure 2)

1 Connect the outside antenna, cable, or satellite to ANT, or SATELLITE IN on the DTV receiver (see your DTV receiver's owner's guide for instructions, and cable compatibility).

2 Connect the incoming terrestrial antenna, or cable (not satellite) to ANT-A on the TV back panel (a coaxial splitter, available at most electronic supply stores, may be required to complete this installation).

3 Connect the RCA-type cables from the Y/Pr/Pb outputs on the DTV receiver to HIGH RESOLUTION INPUT Y/Pr/Pb on the TV back panel. You may need to set the DTV input assignment to YPrPb in the *Assign Input menu*, page 33.

4 Connect the L (left) and R (right) audio cables from the DTV receiver to DTV AUDIO on the TV back panel.

➡ To utilize the benefits of a digital A/V receiver, connect your DTV receiver's digital audio out to a digital input on your digital A/V receiver.

IMPORTANT

➡ **See Appendix B, page 61, for component video signal compatibility information.**

➡ **For digital audio connections, see your DTV receiver and A/V receiver Owner's Guides.**

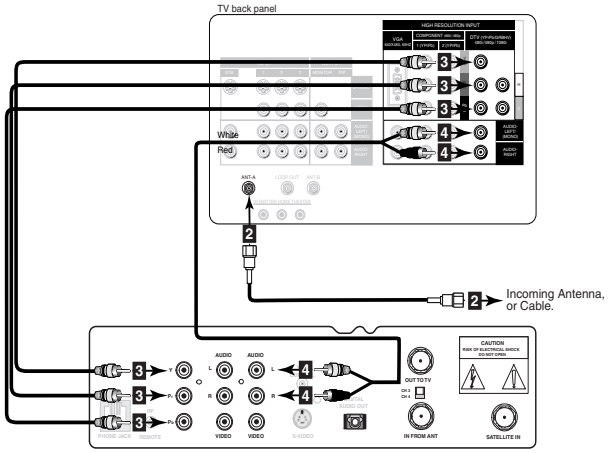


Figure 2. *Connecting the DTV receiver with component video connections.*

Connecting a DTV Receiver

IMPORTANT

- **See Appendix B, page 61, for RGB video signal compatibility information.**
- **For digital audio connections, see your DTV receiver and A/V receiver Owner's Guides.**

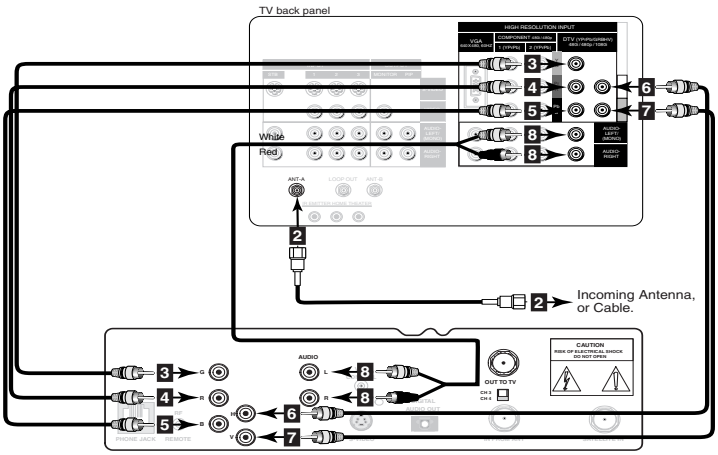


Figure 1. *Connecting the DTV receiver with RGB video connections.*

DTV Receiver with RGB Video Connections

(Figure 1)

1 Connect the outside antenna, cable, or satellite to ANT, or SATELLITE IN on the DTV receiver (see your DTV receiver's owner's guide for instructions, and cable compatibility).

2 Connect the incoming terrestrial antenna, or cable (not satellite) to ANT-A on the TV back panel (a coaxial splitter, available at most electronic supply stores, may be required to complete this installation).

➡ Connect the RGB cables from the DTV receiver to the HIGH RESOLUTION INPUT GRBHV on the TV back panel. You may need to set the DTV input assignment to RGB in the *Assign Input menu*, page 33.

	DTV Receiver		TV Back Panel
3	G (green)	=	Y
4	R (red)	=	Pr
5	B (blue)	=	Pb

➡ If the DTV receiver has outputs for H and V sync, connect as listed below (**DO NOT** connect if DTV receiver uses "Sync on Green"):

6	H (horizontal sync)	=	H
7	V (vertical sync)	=	V

8 Connect the L (left) and R (right) audio cables from the DTV receiver and to DTV AUDIO on the TV back panel.

➡ To utilize the benefits of a digital A/V receiver, connect your DTV receiver's digital audio out to a digital input on your digital A/V receiver.

Connecting a Computer with a VGA Monitor Output

Connecting a Computer

(Figure 1)

1. Connect VGA Monitor Out from the computer to VGA on the TV back panel using a VGA compatible monitor cable. See *Appendix B*, page 61, for VGA signal compatability.
2. Connect the L (left) and R (right) audio cables from the computer to VGA AUDIO on the TV back panel. In cases where your computer's audio output is a single mini-RCA jack, a spliter is needed to complete this connection.

➡ To utilize the benefits of a digital A/V receiver, connect your computer's digital audio out, if available, to a digital input on your digital A/V receiver.

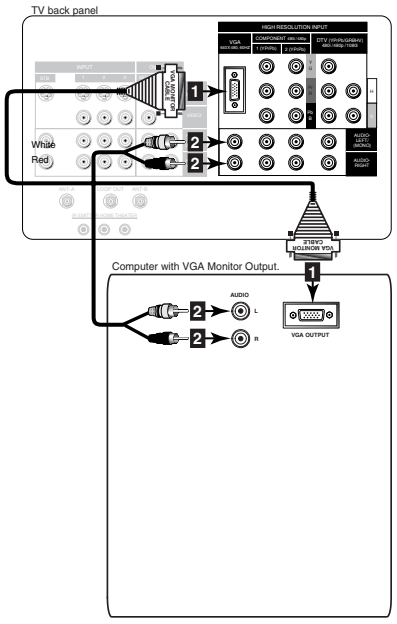


Figure 1. *Connecting a computer with a VGA monitor output.*

Connecting the System 4 Home Theater IR Control

(Figure 1)

1. Connect the IR emitter to IR HOME THEATER on the TV back panel.
2. Place the IR emitter cable under or along the side of the A/V device. Place the IR lens directly in front of the A/V device's infrared signal receiver. Infrared signal receivers are usually behind the front translucent panel of the device.
3. Place unused transmitters in an out-of-the-way location.
4. For permanent installation of the IR emitter cable, use the included adhesive tape to secure the bottom of the emitter to the anchoring object of your choice.

IMPORTANT

➡ **See page 53 for details on using the TV's IR emitter to control a Mitsubishi A/V receiver.**

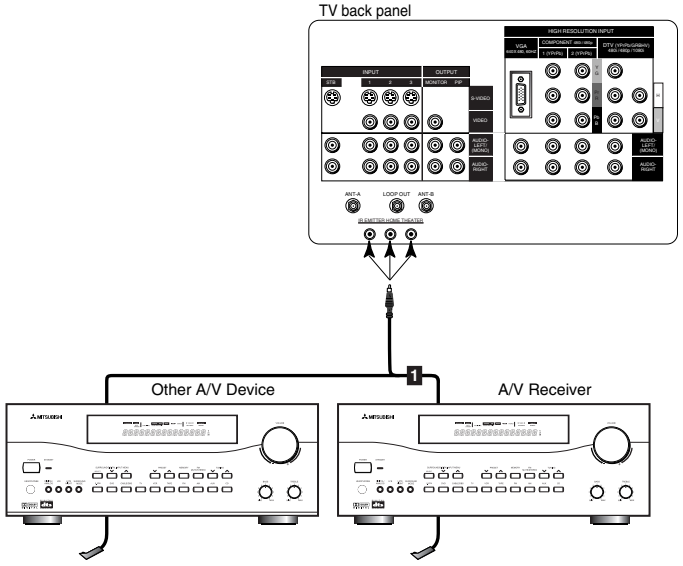


Figure 2. *Connecting the System 4 Home Theater IR Control.*

Warning: Do not leave stationary, toolbar, or partial images on-screen for extended periods of time. Mix the types of pictures shown. Uneven picture tube aging is NOT covered by your warranty.

The VGA capability of this television is designed for occasional use ONLY.

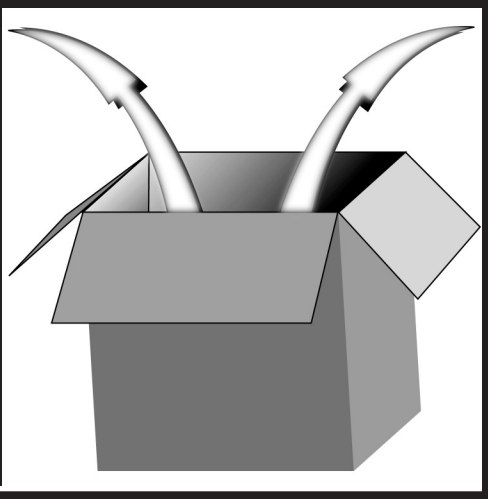
It is not meant to be used as a work station or to view static or odd-shaped images for an extended period of time. Any device connected to your television via the VGA port, including, but not limited to, personal computer, game system, or digital set-top box, must have its screen saver function activated to prevent damage to the television. We **DO NOT** recommend the use of any external device that does not have a screen saver function with this television.

We recommend that screen saver activation time be set to less than five minutes and that when using a device through the VGA port, you use lower brightness and contrast settings. If your computer programs allow, toolbars should be set to hidden mode.

Please remember that most computer programs and video game systems display static images, such as boxes, buttons, tool bars, and games scores that can damage the television if used for extended periods of time, repeatedly, or frequently. The VGA Input will automatically select the “Standard” screen format and fill the screen. No other formats are available with the VGA Input. Standard television overscan is used, so VGA images will be cropped on all sides. Resizing of some displays may be required. Consult your owner’s manual for computers, computer programs and game systems for assistance with resizing display images. Please see page 58 for an explination of uneven picture aging.

We're proud of the many advances in digital television, in which we have played a major role. Digital broadcasting brings flawless pictures and sound. At its highest performence level, high definition television (HDTV) delivers images up to six times more detailed than standard analog television.

Part III



Setup

Programming the Remote Control:

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Programming the Remote Control: To Control Other A/V Products

To Program the Remote to Control Other Brands of Audio and Video Products:

(Figures 1-5)

1. Move the slide switch at the top of the remote to the product you want to control.
2. Press and hold the POWER button on the remote control.
3. Enter the first three digit code listed for your equipment, and then release the POWER button on the remote control.
4. Point the remote control at the equipment and press the POWER button. If the equipment responds, the remote control is properly programmed to operate the equipment. If the equipment does not respond, repeat steps 2-4 with the next three digit code listed in step 3 for your equipment.

3 Cable Box Codes

Cable box brand	Code to enter:
General Instruments	111, 119, 120, 121, 122,
Jerrold	123, 124, 125, 126, 127
Oak	102, 137, 139
Pioneer	101, 116
Scientific Atlanta	111, 112, 113
Zenith	100, 117
To reset to default code, enter 000	

If your cable box code is not listed here, please see page 62 for a complete listing.

Figure 1. *Programming the remote to control your cable box.*

IMPORTANT

➡ **If you cannot turn the cable box ON by pressing POWER, try pressing CHANNEL or the number buttons.**

3 Satellite Receiver Codes

Satellite brand	Code to enter:
Mitsubishi DTV - DBS	173
Dishnetwork	175
Hughes - DSS	173
RCA - DSS	176
Sony - DSS	177
Toshiba - DSS	170
Panasonic - DSS	174
Primestar	178
To reset to default code, enter 000	

If your satellite receiver code is not listed here, please see page 62 for a complete listing.

Figure 2. *Programming the remote to control your satellite receiver.*

3 VCR Codes

VCR brand	Code to enter:
Mitsubishi	001, 002
Hitachi	020, 043, 065
JVC	030, 054, 059
Phillips / Magnivox	043, 044, 051
Panasonic	041, 042, 043
RCA	020, 053, 065
Sony	048, 049, 050
Toshiba	021, 066
To reset to default code, enter 000	

If your VCR code is not listed here, please see page 62 for a complete listing.

Figure 3. *Programming the remote to control your VCR.*

IMPORTANT

➡ **When set to TV, the PLAY, STOP, REW/REV, and FF/FWD buttons will operate the VCR after the VCR codes have been properly programmed into the remote control.**

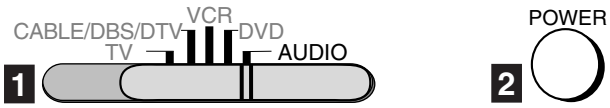
Programming the Remote Control: To Control Other A/V Products

3 DVD/LDP Player Codes

DVD/LDP brand	Code to enter:
Mitsubishi (DVD)	003
Mitsubishi (LDP)	016, 017
Panasonic	250
Pioneer DVD (LDP)	252 (016, 017)
Sony	254
Toshiba	253
To reset to default code, enter 000	

If your DVD code is not listed here, please see page 62 for a complete listing.

Figure 4. *Programming the remote to control your DVD/ LDP.*



3 A/V Receiver Codes

Audio brand	Code to enter:
Mitsubishi A/V receiver and/or CD player	Set M-VR1000 or M-VR800 to 015 Set M-VR900 or M-VR700 to 010
Denon	234, 235, 236
Kenwood	200, 208
JVC	232, 233
Onkyo	209, 214
Pioneer	205, 207
Sony	222
Yamaha	201, 208
To reset to default code, enter 000	

If your audio code is not listed here, please see page 62 for a complete listing.

Figure 5. *Programming the remote to control your A/V receiver.*

After entering the correct codes in each position of the remote control, use the slide switch to select which product will respond when an operational button is pressed. If you enter a code from the AUDIO chart while the slide switch is set to TV, the volume and mute functions change to match the A/V receiver. This is useful when using an A/V receiver with the TV all the time. In all other cases, only one of the below devices is allowed for each slide switch position.

TV position:
- TV
- A/V receiver (volume and mute only)

Cable/DBS/DTV position:
- Cable box
- Satellite receiver
- DTV receiver

VCR position:
- VCR

DVD position:
- DVD
- LD Player

Audio position:
- A/V receiver
- Mitsubishi CD player [If you have a Mitsubishi A/V receiver, the audio position may be used in conjunction with select Mitsubishi CD players. Your audio position must be programmed to either 010 or 011. Plug the CD player power cord into a switched outlet on the back of your A/V receiver. Pressing the POWER button will then turn on your A/V receiver, in turn, turning on your CD player. On select CD players, the transport controls (FF, Play, Rew, etc.) in the audio position will operate the CD player.]

IMPORTANT

- **If the slide switch is set to TV when you enter an A/V receiver code, VOLUME and MUTE will control the A/V receiver rather than the TV. To return volume and mute control to the TV, set the slide switch to TV, press and hold POWER and enter 000.**

IMPORTANT

- **Some manufacturers may change their products, or they may use more than one remote control system. If this is the case, your remote control may not be able to operate your VCR, DVD, cable box, satellite receiver, or A/V receiver.**

Programming the Remote Control: To Activate the System 4 Home Theater IR Control

Activation of the System 4 Home Theater IR Control

For select brands of digital A/V receiver's, you can set up the remote control to automatically select the correct audio input when you press the HOME THEATER button. At the same time, the TV will select the correct video input. This allows you to watch your best type of video (Component, S-Video) with your best type of audio (Dolby Digital, Pro Logic, etc.) conveniently. See *System 4 Home Theater IR Control*, page 22, for connection instructions.

Once properly activated, when the HOME THEATER button is pressed, System 4 Operates In 2 Parts:

AUDIO Changes a compatible digital A/V receiver to the correct input for the device you wish to operate.

VIDEO Changes the TV to the correct input for the device you wish to operate.

Both functions can operate simultaneously with one touch of the HOME THEATER button. However, you may activate only one if you desire (video to control the TV or audio to control the A/V Receiver). The remote control must be programmed to the appropriate A/V Receiver code prior to the activation of the audio portion (see *To Program the Remote to Control Other Brands of Audio and Video Products*, page 26).

To Activate the Audio Portion:

1. Press and hold the HOME THEATER button.
2. Press and release the AUDIO button.

To Activate the Video Portion:

(Figure 1)

1. Press and hold the HOME THEATER button.
2. Press and release the VIDEO button.
3. Name the TV input as instructed.

3 Name TV Input as Shown Below (see pg 33 for naming help)	
Device You Are Using	**Name Input**
Cable Box connected to ANT-A or ANT-B	Cannot be named
Cable Box connected to STB	CABLE
Satellite Receiver connected to any input	DBS
Digital TV/Satellite Receiver connected to DTV	Cannot be named
VCR connected to input 1, 2, 3, or 4	VCR
DVD connected to any input but DTV	DVD

Figure 1. *Activating the audio portion of System 4 for the CABLE/DBS/DTV layer.*

Programming the Remote Control: To Activate the System 4 Home Theater IR Control

Testing System 4 for Proper Setup

1. Move the slide switch to the position you wish to test.
2. Point the remote at the TV.
3. Press and release the HOME THEATER button. If the audio portion has been properly setup, your A/V receiver will have changed to the appropriate input as indicated in table 1, page 15. If the video connection of your System 4 has been properly setup, your TV will have changed to the appropriate input.

AUDIO If the A/V Receiver did not change inputs...

1. Repeat *Special Setups*, page 15, and retest.
2. Reposition IR emitter(s) and retest
3. Repeat *To Activate the Audio Portion*, page 28, and retest.

➡ If your A/V receiver is still not responding to the commands from your remote control, you may have an incompatible A/V receiver. Proceed to *Deactivating the System 4 Home Theater IR Control*, on this page.

IMPORTANT

➡ **System 4 is designed for use with A/V receivers that have at least 4 inputs. A/V receivers with fewer may be only partially compatible.**

AUDIO If the A/V Receiver changed to an input other than the one indicated in table 1, page 15...

1. Connect the audio output from your A/V device to the A/V receiver input that your A/V receiver DID change to, and retest.

VIDEO If the TV did not change inputs...

1. Repeat *To Activate the Video Portion*, page 28, and retest.

Deactivating the System 4 Home Theater IR Control

1. Simultaneously press the CANCEL button and the HOME THEATER button.
2. Repeat *To Activate the Video Portion*, page 28.

The 3D Graphical ViewPoint® Menu System

Your TV has Mitsubishi's exclusive 3D Graphical ViewPoint® on-screen operating system, which provides on-screen information for menu choices and changes (Figure 1).

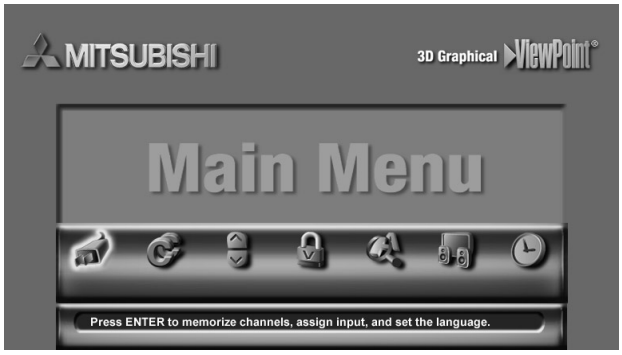


Figure 1. *Main Menu: The Main Menu screen will always be the first screen that appears when you press the MENU button.*

A picture (icon) will be highlighted when selected with the ADJUST arrows. When selected, the appropriate menu will appear. You may then make changes within the menu or access sub-menus, if available.

A button indicates that you will access a sub-menu or start an automatic function by making this selection.

The ViewPoint® system includes the following special features:

- The currently selected icon or button is highlighted with a yellow outline and the text color will be yellow.
- On-screen instructions provide complete menu choice information.
- Some on-screen menu options must be set before other options are available. For example, *"Set the Timer"* will only be possible if *"Clock Time"* and *"Set Day"* have been set.

The following buttons on your remote control will help you to navigate within the ViewPoint® system (Figure 2):

1. ADJUST ▶ to select the menu item you want to change.
2. ADJUST ▲ or ▼ to change the settings.
3. ENTER to enter into a menu, start an automatic function, or select a checkbox.
4. CANCEL to clear a setting, or stop an automatic function.
5. MENU to move back one menu screen at a time.
6. HOME to exit all menus and return to TV viewing.

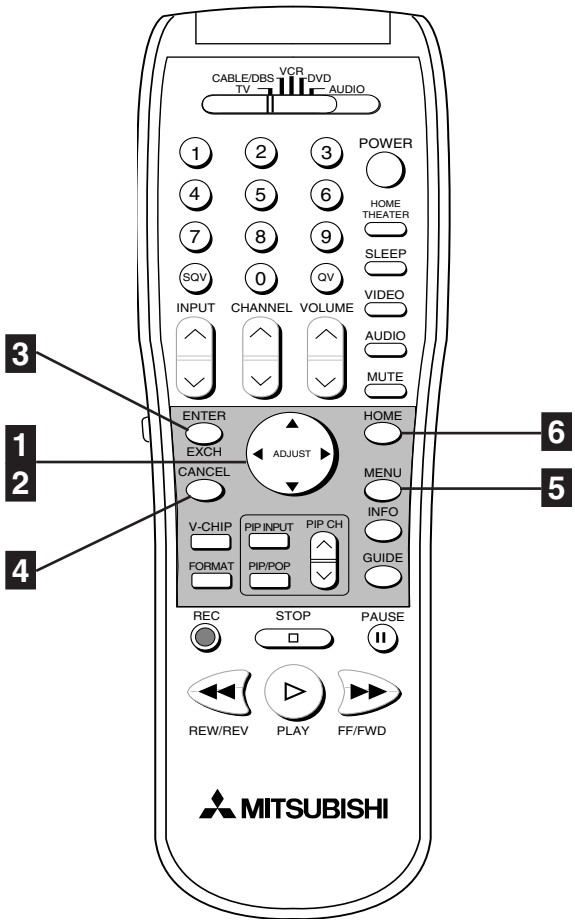


Figure 2. *These buttons are used for navigation within the ViewPoint® on-screen operating system.*

Menu Screens (Overview)

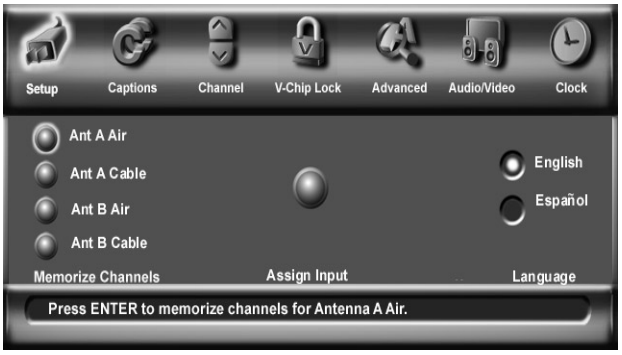


Figure 1. *Setup menu*

Setup Menu

(Figure 1)

You can put channels in memory, turn on or off input connections of the TV, and select the menu system to display in English or Español (Spanish).

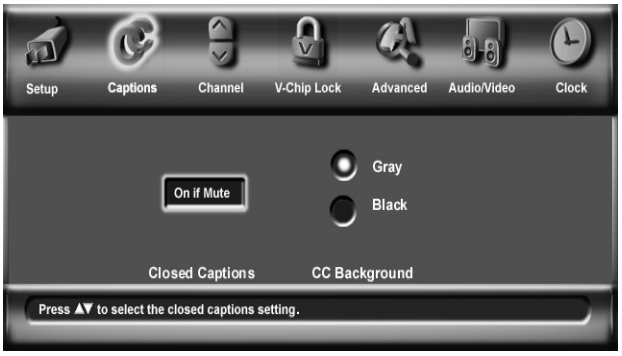


Figure 2. *Captions menu*

Captions Menu

(Figure 2)

Display captions or text, and choose black or gray as the background color for the closed caption area.

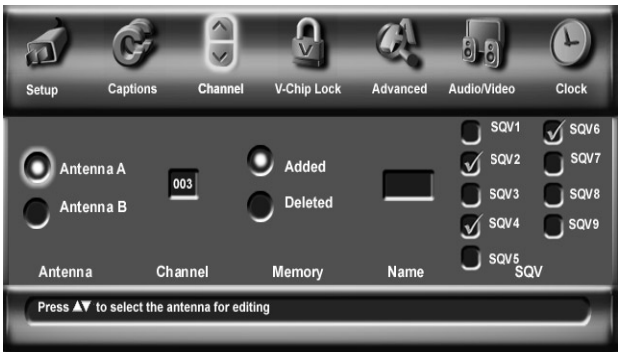


Figure 3. *Channel menu*

Channel Menu

(Figure 3)

Use to customize the channel information for Ant-A and Ant-B. Manually add or delete channels from memory, name channels for Ant-A and Ant-B, or add your favorite channels to a SQV (Super Quick View™) list.

Menu Screens (Overview)

V-Chip Lock Menu

(Figure 1)

Block or allow programing based upon rating signals sent by the broadcast station, or by time.

Figure 1. *V-Chip Lock menu*

Advanced Menu

(Figure 2)

Set your TV to turn on automatically, converge (align) the three main colors, display a blue screen when viewing an input with no signal, enhance the darker parts of bright pictures, and change the line doubling method.

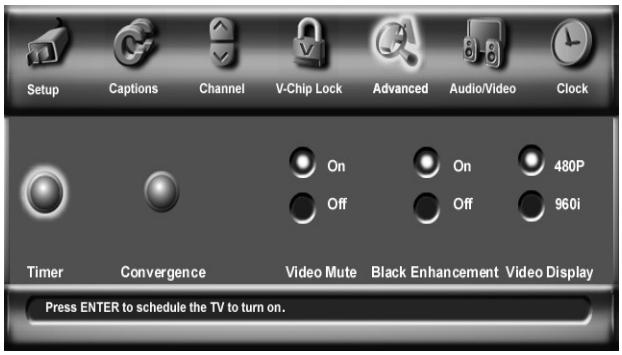


Figure 2. *Advanced menu*

Audio/Video Menu

(Figure 3)

A/V Reset on the menu allows you to return the A/V settings for the current input to the factory presets. A/V Reset on the front panel resets all inputs at one time. You can also adjust some or all of the A/V settings, (each input can be set to your preferences), turn the TV speakers on or off, and choose how you want to control the TVs audio output.

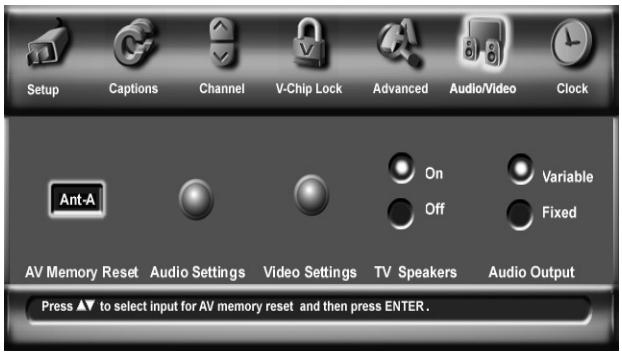


Figure 3. *Audio/Video menu*

Clock Menu

(Figure 4)

Manually set the time for the TV, or select Auto and the TV will automaticaly set the time based upon Extended Data Service (XDS) time data. This time data is usually broadcast by your local PBS station.

Figure 4. *Clock menu*

Setup Menu: Memorize Channels, Assign Input, and Language

Figure 1. *Memorize Channels*

Memorize Channels

(Figure 1)

This selection memorizes the channels your TV can receive and skips the unused or weak channels. You can stop memorization at any time by pressing CANCEL. Channels memorized prior to pressing CANCEL will stay in memory. After channels are memorized, you may select memorized channels in ascending or descending order by pressing the CHANNEL button on the remote control.

IMPORTANT

DTV Note: If you have a DTV receiver connected, you will need to use that receiver's channel memorization system to memorize digital channels.

Figure 2. *Assign Input menu*

Assign Input Menu

(Figure 2)

Assign Input turns off unused inputs, turns them on again, or changes the name of the input. If you turn an input Off, it will be skipped when you press the INPUT button on the remote control. Your choices are:

- Ant-A, and Ant-B: On or Off.
- DTV: YPrPb, RGB, or Off.
- Input: Cycle through the available inputs (Inputs 1-4, Component inputs 1-2, STB, and VGA).
- Status: Turn the selected input On or Off.
- Name: Name the selected input.

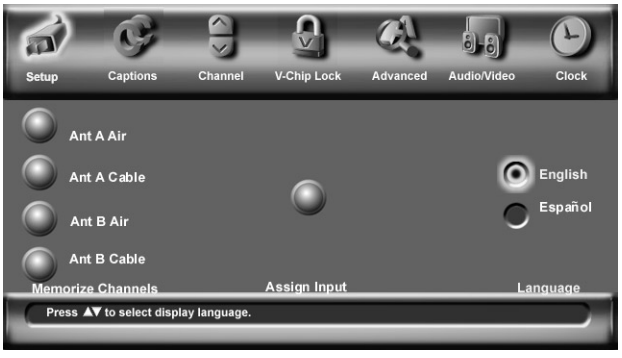


Figure 3. *Language*

Language

(Figure 3)

Display the on-screen menus in either English or Spanish (Español). The first time your TV was powered on, you were requested to select an on-screen menu language. You may change your selection by pressing the ENTER button on the remote control.

Captions Menu: Closed Captions

Captions Menu
(Figure 1)

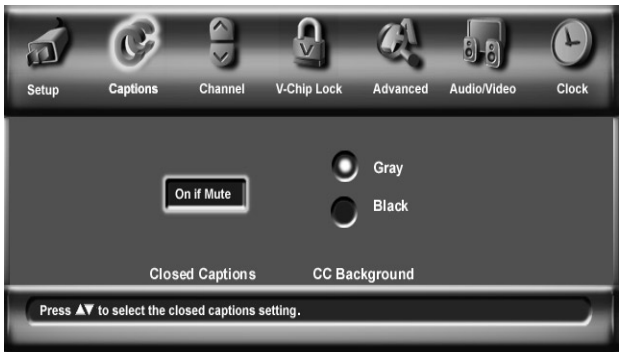


Figure 1. *Captions menu*

Broadcasters can send either Standard or Text closed captioning. Standard closed captioning follows the dialogue of the characters on-screen and displays in a small section of the screen. Text closed captioning often contains information such as weather or news and covers a large portion of the on-screen program. Your TV can decode four different standard and four different text closed captioning signals from each TV station. However, each TV station may broadcast only one or two closed captioning signals, or none at all.

Within the Captions menu, you can turn on or off the closed caption decoder, select the type of captions or text, and choose black or translucent gray as the background color for the closed caption area.

IMPORTANT

➡ **When Text closed captioning is selected, a large black or gray box will appear on your TV screen if no signal is broadcast.**

Closed Captions
(Figure 1)

The TV can display one of the following:

- CC1, CC2, CC3, or CC4: Standard closed captioning signals.
- Text1, Text2, Text3, or Text4: Text closed captioning signals.
- On if mute: Closed captions when mute. When selected, the standard closed captioning signal (CC1) will turn on/off by pressing the MUTE button on the TV remote control.
- Off: No closed captions.

IMPORTANT

➡ **The content of captions is determined by the broadcaster. If your captions show strange characters, misspellings, or odd grammar, it is not a malfunction of the TV.**

CC Background
(Figure 1)

To make the closed captions easier to read, you can choose to display the background color as either black or translucent gray.